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AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application and is submitted herewith per 37 C.F.R. §1.121.

Claims 1-20, 24, 27, 28, 42 and 43 were previously cancelled without prejudice or disclaimer. Claims 37-39 and 44 are canceled herein.

Listing of Claims:

1-20. (Cancelled)

21. (Currently Amended) A computer-implemented method comprising:

managing a storage area network (SAN) with at least a SAN Management server and a SAN Management client, said SAN Management client running a trusted operating system and having a communication path to a Fibre Channel adapter, said Fibre Channel adapter being disposed between the SAN and at least one computer system running an untrusted operating system, said SAN Management server being connected to the at least one computer system and the SAN Management client, said SAN Management client being further connected to the at least one computer system, and

separating requests issued by the SAN Management server into at least two groups, where a first group of requests is issued to the SAN Management client and processed by the Fibre Channel adapter and the SAN on behalf of the SAN Management client in place of the at least one computer system, and a second group of requests is issued to and processed by the at least one computer system without the need to send or receive requests to or from the Fibre Channel adapter and the SAN, where the Fibre Channel adapter accepts requests relating to crucial information only from the SAN Management client, where the crucial information comprises information relating to at least one of a SAN configuration, a SAN component, SAN access rights, error messages, statistics or billing information, where the operation of separating the requests issued by the SAN Management server is performed by a communication module that is distributed over the SAN Management server and the SAN Management client,

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maintaining authorization data for accessing a Remote Access (RA) Server, where said authorization data is maintained in at least one of the SAN Management server and the SAN Management Client, and

operating the SAN Management Client as a router for requests from the SAN Management server to the RA server, wherein the RA Server comprises a telnet/sshd server, where the connection between the SM server, the SM client and RA server is an internet protocol (IP) based network.

- 22. (Previously Presented) The method according to claim 21, further comprising:
 routing all information contained in unsolicited messages generated in the SAN and
 Fibre Channel adapter to the SAN Management server by the SAN management client.
- 23. (Previously Presented) The method according to claim 21, further comprising:

using Host Bus Adapter_Application Program Interface binding requests to modify a firewall interposed between the at least one computer system and the Fibre Channel adapter, and operating the communication path from the SAN Management client to the Fibre Channel adapter so that it cannot be modified or eavesdropped by the at least one computer system.

- 24. (Cancelled)
- 25. (Previously Presented) The method according to claim 21, further comprising:

accessing all information relevant for billing individual ones of the at least one computer system, where said information is generated in the Fibre Channel adapter and the SAN and where said information is accessed only through the SAN Management client.

26. (Currently Amended) The method according to claim 21, further comprising:

said SAN Management server providing <u>first</u> authorization data to the SAN Management client to execute requests from said first group, and said SAN Management server and SAN Management client providing <u>second</u> authorization data to the at least one

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computer system to execute requests from said second group, and operating the at least one computer system so that it is only enabled to execute a limited command set in the SAN.

27. (Cancelled)

28. (Cancelled)

29. (Currently Amended) A computer program product apparatus tangibly storing a computer readable program, where the computer readable program when executed on a computer causes the computer to perform operations to manage a storage area network (SAN), the operations-comprising! comprising:

managing the SAN comprising at least a SAN Management server and a SAN Management client, said SAN Management client running a trusted operating system and having a communication path to a Fibre Channel adapter, said Fibre Channel adapter being disposed between the SAN and at least one computer system running an untrusted operating system, said SAN Management server being connected to the at least one computer system and the SAN Management client, said SAN Management client being further connected to the at least one computer system, and

separating requests issued by the SAN Management server into at least two groups,

where a first group of requests is issued to the SAN Management client and processed by the Fibre Channel adapter and the SAN on behalf of the SAN Management client in place of the at least one computer system, and

a second group of requests is issued to and processed by the at least one computer system without the need to send or receive requests to or from the Fibre Channel adapter and the SAN,

where the Fibre Channel adapter accepts requests relating to crucial information only from the SAN Management client, where the crucial information comprises information relating to at least one of a SAN configuration, a SAN component, SAN access rights, error messages, statistics or billing information, where the operation of separating the requests issued by the SAN Management server is performed by a communication module that is distributed over the SAN Management server and the SAN Management client, further

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comprising an operation of maintaining authorization data for accessing a Remote Access

(RA) Server, where said authorization data is maintained in at least one of the SAN

Management server and the SAN Management Client, further comprising an operation of

operating the SAN Management Client as a router for requests from the SAN Management

server to the RA server, wherein the RA Server comprises a telnet/sshd server, where the

connection between the SM server, the SM client and RA server is an internet protocol (IP)

based network.

30. (Previously Presented) The computer program product apparatus as in claim 29, further

comprising an operation of:

routing information contained in unsolicited messages generated in at least one of the

SAN and Fibre Channel adapter to the SAN Management server by the SAN management

client.

31. (Previously Presented) The computer program product apparatus as in claim 29, further

comprising an operation of:

using Host Bus Adapter Application Program Interface binding requests to modify a

firewall interposed between said at least one computer system and said Fibre Channel

adapter.

32. (Previously Presented) The computer program product apparatus as in claim 29, further

comprising an operation of:

operating the communication path from the SAN Management client to the Fibre

Channel adapter so that it cannot be accessed by the at least one computer system.

33. (Previously Presented) The computer program product apparatus as in claim 29, further

comprising an operation of:

accessing information relevant for billing individual ones of the at least one computer

system, where said information is generated in the Fibre Channel adapter and the SAN and

where said information is accessed only through the SAN Management client.

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34. (Previously Presented) The computer program product apparatus as in claim 29, further

comprising an operation of:

providing authorization data from the SAN Management server to the SAN

Management client to execute requests from said first group of requests.

35. (Previously Presented) The computer program product apparatus as in claim 29, further

comprising an operation of:

providing authorization data from the SAN Management server and the SAN

Management client to the at least one computer system to execute requests from said second

group of requests.

36. (Previously Presented) The computer program product apparatus as in claim 29, further

comprising an operation of enabling the at least one computer system to execute a limited

command set in the SAN.

37-39. (Canceled)

40. (Currently Amended) A storage area network (SAN) Management server, comprising:

a first interface configured to couple to a SAN Management client running a trusted

operating system, said SAN Management client being further coupled to a SAN via a SAN

adapter and to at least one computer system running an untrusted operating system; and

a second interface configured to couple to the least one computer system, said at least

one computer system being coupled to the SAN via the SAN adapter and via a unit for

regulating access to the SAN;

where said SAN Management server comprises logic for distinguishing a first set of

requests from a second set of requests, where the first set of requests is issued to the SAN

Management client and processed by the SAN adapter and the SAN on behalf of said SAN

Management client in place of the at least one computer system, and where the second set of

requests is issued to and processed at least in part by the at least one computer system without

the need to send or receive requests to or from the SAN adapter and the SAN,

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where the SAN adapter accepts requests relating to crucial information only from the

SAN Management client, where the crucial information comprises information relating to at

least one of a SAN configuration, a SAN component, SAN access rights, error messages,

statistics or billing information, where the operation of separating the requests issued by the

SAN Management server is performed by a communication module that is distributed over

the SAN Management server and the SAN Management client, where at least one of the SAN

Management server and the SAN Management Client is operable to maintain authorization

data for accessing a Remote Access (RA) Server, where the SAN Management Client is

operated as a router for requests from the SAN Management server to the RA server, wherein

the RA Server comprises a telnet/sshd server, where the connection between the SM server,

the SM client and RA server is an internet protocol (IP) based network.

41. (Previously Presented) The SAN Management server as in claim 40, where said first set

of requests comprises at least one of a SAN request and a SAN adapter request, and where

said second set of requests comprises a request for configuration data of the at least one

computer system.

42-44. (Cancelled)

45. (Previously Presented) The computer program product apparatus as in claim 29, where

the first group of requests comprises authorized SAN access requests and the second group of

requests comprises operating system configuration requests.